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DEPARTMENT OF THE INTERIOR

Fish and Wildlife Service

[FWS-R1-ES-2019-N071; FXES11130100000-190-FF01E000000]

Endangered and Threatened Wildlife and Plants; Draft Kauai Islandwide Recovery

Plan

**AGENCY:** Fish and Wildlife Service, Interior.

**ACTION:** Notice of document availability for review and public comment.

**SUMMARY:** We, the U.S. Fish and Wildlife Service, announce the availability of the

Draft Kauai Islandwide Recovery Plan under the Endangered Species Act. This draft

recovery plan addresses 175 listed species occurring on the island of Kauai, Hawaii, 111

of which are endemic to Kauai. The draft recovery plan includes specific goals,

objectives, and criteria that should be met to remove the Kauai endemic species from the

Federal List of Endangered and Threatened Wildlife and Plants. For the listed species

that occur on multiple Hawaiian islands, the draft recovery plan describes those actions

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specific to Kauai; complete recovery actions and recovery criteria for these species will be covered in a subsequent multi-island recovery plan. We request review and comment on this draft recovery plan from local, State, and Federal agencies and the public. We will also accept any new information on the species' status throughout their range.

**DATES:** In order to be considered, comments on the draft recovery plan must be received on or before [INSERT DATE 90 DAYS AFTER DATE OF PUBLICATION IN THE *FEDERAL REGISTER*]. However, we will accept information about any species at any time.

**ADDRESSES:** An electronic copy of the draft recovery plan is available at our website at http://www.fws.gov/endangered/species/recovery-plans.html and http://www.fws.gov/pacific/ecoservices/endangered/recovery/plans.html. If you wish to comment on the plan, you may submit your comments in writing by any one of the following methods:

- (1) You may submit written comments and materials to Field Supervisor, Pacific Islands Fish and Wildlife Office, U.S. Fish and Wildlife Service, 300 Ala Moana Boulevard, Room 3122, Honolulu, HI 96850.
- (2) You may submit written comments to our Pacific Islands Fish and Wildlife Office by fax at (808)792-9581.
  - (3) You may send comments by email to gregory\_koob@fws.gov.

For additional information about submitting comments, see the "Request for Public Comments" section below.

**FOR FURTHER INFORMATION CONTACT:** Gregory Koob, Deputy Field Supervisor, by mail at the above Honolulu address, or by telephone at (808)792–9400. Individuals who are hearing impaired may call the Federal Relay Service at 800-877-8339 for TTY assistance.

SUPPLEMENTARY INFORMATION: We, the U.S. Fish and Wildlife Service, announce the availability of the Draft Kauai Islandwide Recovery Plan under the Endangered Species Act (Act; 16 U.S.C. 1531 et seq.). This draft recovery plan addresses 175 listed species occurring on the island of Kauai, Hawaii, 111 of which are endemic to Kauai. The draft recovery plan includes specific goals, objectives, and criteria that should be met to remove the Kauai endemic species from the Federal List of Endangered and Threatened Wildlife and Plants. For the listed species that occur on multiple Hawaiian islands, the draft recovery plan describes those actions specific to Kauai; complete recovery actions and recovery criteria for these species will be covered in a subsequent multi-island recovery plan. We request review and comment on this draft recovery plan from local, State, and Federal agencies and the public. We will also accept any new information on any species' status throughout its range.

# **Background**

Recovery of endangered or threatened animals and plants to the point where they are again secure, self-sustaining members of their ecosystems is a primary goal of our endangered species program and the Act (16 U.S.C. 1531 *et seq.*). Recovery means improvement of the status of listed species to the point at which listing is no longer appropriate under the criteria set out in section 4(a)(1) of the Act. The Act requires the development of recovery plans for listed species, unless such a plan would not promote the conservation of a particular species.

# **Species Addressed in Recovery Plan**

This draft recovery plan addresses 175 species, as listed in the table below. Many of these species have been addressed previously in earlier recovery plans; this plan will update and supersede the Kauai-specific actions in those documents, and is intended to provide a single unified reference for the recovery of all listed species on Kauai.

Scientific Name	Common Name	Listing Status	Kauai Endemic	Most Recent Recovery Plan
PLANTS				
Acaena exigua	Liliwai	Endangered	No	D
Achyranthes mutica	No common name	Endangered	No	A
Adenophorus periens	Fern, pendant kihi	Endangered	No	A
Alectryon macrococcus	Mahoe	Endangered	No	D
Asplenium dielerectum	Diellia, asplenium- leaved	Endangered	No	A
Asplenium dielmannii [=Diellia mannii]	No common name	Endangered	Yes	
Asplenium dielpallidum [=Diellia pallida]	No common name	Endangered	Yes	Е
Astelia waialealae	Painiu	Endangered	Yes	
Bonamia menziesii	No common name	Endangered	No	A
Brighamia insignis	Olulu	Endangered	No	Е
Canavalia napaliensis	Awikiwiki	Endangered	Yes	

Canavalia pubescens	Awikiwiki	Endangered	No	
Charpentiera densiflora	Papala	Endangered	Yes	
Ctenitis squamigera	Pauoa	Endangered	No	С
Cyanea asarifolia	Haha	Endangered	Yes	Е
Cyanea dolichopoda	Haha	Endangered	Yes	
Cyanea eleeleensis	Haha	Endangered	Yes	
Cyanea kolekoleensis	Haha	Endangered	Yes	
Cyanea kuhihewa	Haiwale	Endangered	Yes	
Cyanea recta	Haha	Threatened	Yes	F
Cyanea remyi	Haha	Endangered	Yes	F
Cyanea undulata	No common name	Endangered	Yes	G
Cyperus pennatiformis	No common name	Endangered	No	A
Cyperus trachysanthos	Puukaa	Endangered	No	A
Cyrtandra cyaneoides	Mapele	Endangered	Yes	F
Cyrtandra limahuliensis	Haiwale	Threatened	Yes	Е
Cyrtandra oenobarba	Haiwale	Endangered	Yes	
Cyrtandra paliku	Haiwale	Endangered	Yes	
Delissea rhytidosperma	No common name	Endangered	No	Е
Delissea rivularis	Oha	Endangered	Yes	F
Diplazium molokaiense	No common name	Endangered	No	С
Doryopteris angelica	No common name	Endangered	Yes	
Dryopteris crinalis var.	Palapalai aumakua	Endangered	Yes	
podosorus				
Dubautia imbricata	Naenae	Endangered	Yes	
subsp. imbricata				
Dubautia kalalauensis	Naenae	Endangered	Yes	
Dubautia kenwoodii	Naenae	Endangered	Yes	
Dubautia latifolia	Koholapehu	Endangered	Yes	Е
Dubautia pauciflorula	Naenae	Endangered	Yes	G
Dubautia plantaginea	Naenae	Endangered	Yes	
subsp. magnifolia				
Dubautia waialealae	Naenae	Endangered	Yes	
Euphorbia eleanoriae	Akoko	Endangered	Yes	
[=Chamaesyce				
eleanoriae]				
Euphorbia haeleeleana	Akoko	Endangered	No	A
Euphorbia halemanui	Akoko	Endangered	Yes	E
[=Chamaesyce				
halemanui]			**	
Euphorbia remyi var.	Akoko	Endangered	Yes	
kauaiensis [=Chamaesyce				
remyi var. kauaiensis]	A1 1	P. I.	**	
Euphorbia remyi var.	Akoko	Endangered	Yes	
remyi [=Chamaesyce				
remyi var. remyii				

Exocarpos luteolus	Heau	Endangered	Yes	Е
Flueggea neowawraea	Mehamehame	Endangered	No	A
Gardenia remyi	Nanu	Endangered	No	
Geranium kauaiense	Nohoanu	Endangered	Yes	
Gouania meyenii	No common name	Endangered	No	Н
Haplostachys	No common name	Endangered	No	I
haplostachya				
Hesperomannia lydgatei	No common name	Endangered	Yes	G
Hibiscadelphus distans	Kauai hau kuahiwi	Endangered	Yes	J
Hibiscadelphus woodii	Hau kuahiwi	Endangered	Yes	F
Hibiscus brackenridgei	Mao hau hele, (=native yellow hibiscus)	Endangered	No	A
Hibiscus clayi	Clay's hibiscus	Endangered	Yes	Е
Hibiscus waimeae subsp.	Kokio keokeo	Endangered	Yes	F
Huperzia mannii	Wawaeiole	Endangered	No	D
Huperzia nutans	Wawaeiole	Endangered	No	H
Ischaemum byrone	Hilo ischaemum	Endangered	No	K
Isodendrion laurifolium	Aupaka	Endangered	No	A
Isodendrion longifolium	Aupaka	Threatened	No	A
Joinvillea ascendens	Ohe	Endangered	No	
subsp. ascendens	One	Endangered	110	
Kadua cookiana	Awiwi	Endangered	No	E
[=Hedyotis cookiana]	71WIWI	Endangered	110	L
Kadua fluviatilis	Kamapuaa	Endangered	No	
[=Hedyotis fluviatilis]				
Kadua stjohnii	No common name	Endangered	Yes	Е
[=Hedyotis stjohnii]				
Kanaloa kahoolawensis	Kohe malama	Endangered	No	В
	malama o kanaloa			
Keysseria erici	No common name	Endangered	Yes	
Keysseria helenae	No common name	Endangered	Yes	
Kokia kauaiensis	Kokio	Endangered	Yes	F
Labordia helleri	Kamakahala	Endangered	Yes	
Labordia lydgatei	Kamakahala	Endangered	Yes	G
Labordia pumila	Kamakahala	Endangered	Yes	
Labordia tinifolia var.	Kamakahala	Endangered	Yes	F
wahiawaensis				
Lipochaeta fauriei	Nehe	Endangered	Yes	Е
[=Melanthera fauriei]				
Lipochaeta micrantha	Nehe	Endangered	Yes	Е
[=Melanthera micrantha]				
Lipochaeta waimeaensis	Nehe	Endangered	Yes	Е
[=Melanthera				

waimeaensis]				
Lobelia niihauensis	No common name	Endangered	No	Н
Lysimachia daphnoides	Lehua makanoe	Endangered	Yes	
Lysimachia iniki	No common name	Endangered	Yes	
Lysimachia pendens	No common name	Endangered	Yes	
Lysimachia scopulensis	No common name	Endangered	Yes	
Lysimachia venosa	No common name	Endangered	Yes	
Melicope degeneri	Alani	Endangered	Yes	
Melicope haupuensis	Alani	Endangered	Yes	Е
Melicope knudsenii	Alani	Endangered	No	Е
Melicope pallida	Alani	Endangered	No	Е
Melicope paniculata	Alani	Endangered	Yes	
Melicope puberula	Alani	Endangered	Yes	
Melicope quadrangularis	Alani	Endangered	Yes	Е
Mezoneuron kavaiense	Uhiuhi	Endangered	No	L
Myrsine fosbergii	Kolea	Endangered	No	
Myrsine knudsenii	Kolea	Endangered	Yes	
Myrsine linearifolia	Kolea	Threatened	Yes	F
Myrsine mezii	Kolea	Endangered	Yes	
Nothocestrum latifolium	Aiea	Endangered	No	
Nothocestrum peltatum	Aiea	Endangered	Yes	Е
Panicum niihauense	Lauehu	Endangered	No	A
Peucedanum sandwicense	Makou	Threatened	No	Е
Phyllostegia knudsenii	No common name	Endangered	Yes	F
Phyllostegia renovans	No common name	Endangered	Yes	
Phyllostegia waimeae	No common name	Endangered	Yes	Е
Phyllostegia wawrana	No common name	Endangered	Yes	F
Pittosporum napaliense	Hoawa	Endangered	Yes	
Plantago princeps	Kuahiwi laukahi	Endangered	No	A
Platanthera holochila	No common name	Endangered	No	A
Platydesma rostrata	Pilokea laulii	Endangered	Yes	
Poa mannii	Mann's bluegrass	Endangered	Yes	Е
Poa sandvicensis	Hawaiian bluegrass	Endangered	Yes	Е
Poa siphonoglossa	No common name	Endangered	Yes	Е
Polyscias bisattenuata	No common name	Endangered	Yes	
[=Tetraplasandra				
bisattenuata]				
Polyscias flynnii	No common name	Endangered	Yes	
[=Tetraplasandra flynnii]				
Polyscias racemosa	No common name	Endangered	Yes	E
[=Munroidendron				
racemosum]				
Pritchardia hardyi	Loulu	Endangered	Yes	
Pritchardia napaliensis	Loulu	Endangered	Yes	F
Pritchardia viscosa	Loulu	Endangered	Yes	F

Psychotria grandiflora	Kopiko	Endangered	Yes		
Psychotria hobdyi	Kopiko	Endangered	Yes		
Pteralyxia kauaiensis	Kaulu	Endangered	Yes	E	
Ranunculus mauiensis	Makou	Endangered	No		
Remya kauaiensis	No common name	Endangered	Yes	E	
Remya montgomeryi	No common name	Endangered	Yes	E	
Scaevola coriacea	Naupaka, dwarf	Endangered	No	D	
Schenkia sebaeoides	Awiwi	Endangered	No	A	
Schiedea apokremnos	Maolioli	Endangered	Yes	E	
Schiedea attenuata	No common name	Endangered	Yes		
Schiedea helleri	No common name	Endangered	Yes	F	
Schiedea kauaiensis	No common name	Endangered	Yes	F	
Schiedea lychnoides	Kuawawaenohu	Endangered	Yes	F	
[=Alsinidendron	Kuawawaenonu	Endangered	168	Γ	
lychnoides]					
Schiedea membranacea	No common name	Endangered	Yes	F	
Schiedea nuttalii	No common name				
Schiedea spergulina var.		Endangered	No Yes	A E	
leiopoda	No common name	Endangered	ies	E	
	No common nama	Threatened	Yes	E	
Schiedea spergulina var.	No common name	Threatened	ies	E	
spergulina Schiedea stellarioides	Laulihilihi	Endongonod	Yes	F	
Schiedea viscosa		Endangered			
[=Alsinidendron	No common name	Endangered	Yes	F	
[=Aisiniaenaron viscosum]					
Sesbania tomentosa	Ohai	Endangered	No	A	
Silene lanceolata	No common name	Endangered	No	M	
Solanum incompletum Solanum nelsonii	Popolo ku mai	Endangered Endangered	No	A	
Solanum neisonii Solanum sandwicense	Popolo	Ū	No		
	Popolo aiakeakua	Endangered	No	E	
Spermolepis hawaiiensis	No common name	Endangered	No	A	
Stenogyne campanulata	No common name	Endangered	Yes	E	
Stenogyne kealiae	No common name	Endangered	Yes		
Viola helenae	No common name	Endangered	Yes	G	
Viola kauaiensis var.	Nani waialeale	Endangered	Yes	F	
wahiawaensis	D('11'.	F. 1 1	37		
Wilkesia hobdyi	Dwarf iliau	Endangered	Yes	E	
Xylosma crenatum	No common name	Endangered	Yes	E	
Zanthoxylum hawaiiense	Ae	Endangered	No	K	
INVERTEBRATES					
Manduca blackburni	Blackburn's sphinx	Endangered	No	N	
	moth				
Drosophila musaphilia	Hawaiian picture- wing fly	Endangered	Yes		

D 1:1 1 :	TT	F 1 1	37	
Drosophila sharpi	Hawaiian picture-	Endangered	Yes	
~	wing fly	- 1		
Spelaeorchestia koloana	Kauai cave amphipod	Endangered	Yes	0
Adelocosa anops	Kauai cave wolf	Endangered	Yes	О
	spider			
Erinna newcombi	Newcomb's snail	Threatened	Yes	P
Megalagrion	Orangeblack	Endangered	No	
xanthomelas	Hawaiian damselfly			
Megalagrion pacificum	Pacific Hawaiian	Endangered	No	
	damselfly			
VERTEBRATES				
Himantopus mexicanus	Hawaiian stilt	Endangered	No	Q
knudseni				
Oceanodroma castro	Akeake, Band-	Endangered	No	
	rumped storm-petrel			
	(Hawaii Distinct			
	Population Segment)			
Loxops caeruleirostris	Akekee	Endangered	Yes	
	(honeycreeper)			
Oreomystis bairdi	Akikiki	Endangered	Yes	R*
	(honeycreeper)			
Fulica alai	Alae keokeo,	Endangered	No	Q
	Hawaiian coot			
Gallinula galeata	Alae ula, Hawaiian	Endangered	No	Q
sandvicensis	common gallinule			
Puffinus newelli	Ao, Newell's	Endangered	No	S
	shearwater			
Chelonia mydas	Green turtle	Threatened	No	T
Myadestes myadestinus	Kamao, large Kauai	Endangered	Yes	R
	thrush			
Akialoa stejnegeri	Kauai akialoa	Endangered	Yes	R
Hemignathus hanapepe	Kauai nukupuu	Endangered	Yes	R
Anas wyvilliana	Koloa maoli,	Endangered	No	Q
	Hawaiian duck			
Anas laysanensis	Laysan duck	Endangered	No	U
Branta sandvicensis	Nene, Hawaiian	Endangered	No	V
	goose			
Moho braccatus	Oo aa, Kauai oo	Endangered	Yes	R
Lasiurus cinereus	Opeapea, Hawaiian	Endangered	No	W
semotus	hoary bat			
Psittirostra psittacea	Ou	Endangered	No	R
Myadestes palmeri	Small Kauai thrush	Endangered	Yes	R
Pterodroma	Hawaiian petrel	Endangered	No	S
sandwichensis				

- A: Recovery Plan for the Multi-Island Plants (FWS 1999)
- B: Addendum to the Recovery Plan for the Multi-Island Plants (FWS 2002)
- C: Final Recovery Plan for Four Species of Hawaiian Ferns (FWS 1998a)
- D: Recovery Plan for the Maui Plant Cluster (FWS 1997)
- E: Recovery Plan for the Kauai Plant Cluster (FWS 1995)
- F: Kauai II: Addendum to the Recovery Plan for the Kauai Plant Cluster (FWS 1998b)
- G: Recovery Plan for the Wahiawa Plant Cluster (FWS 1994)
- H: Recovery Plan for the Oahu Plants (FWS 1998c)
- I: Draft Recovery Plan for Haplostachys haplostachya and Stenogyne angustifolia (FWS 1993)
- J: Recovery Plan for Hibiscadelphus distans (FWS 1996a)
- K: Recovery Plan for the Big Island Plant Cluster (FWS 1996b)
- L: Recovery Plan for Caesalpinia kavaiensis and Kokia drynarioides (FWS 1994)
- M: Recovery plan for the Molokai Plant Cluster (FWS 1996c)
- N: Recovery Plan for Blackburn's Sphinx Moth (FWS 2005)
- O: Final Recovery Plan for the Kauai Cave Arthropods (FWS 2006a)
- P: Final Recovery Plan for Newcomb's Snail (FWS 2006b)
- Q: Recovery Plan for Hawaiian Waterbirds, Second Revision (FWS 2011)
- R: Revised Recovery Plan for Hawaiian Forest Birds (FWS 2006c)
- S: Hawaiian Dark-rumped Petrel and Newell's Manx Shearwater Recovery Plan (FWS 1983)
- T: Recovery Plan for U.S. Pacific Populations of the Green Turtle (NMFS and FWS 1998)
- U: Revised Recovery Plan for the Laysan Duck (FWS 2009)
- V: Draft Revised Recovery Plan for the Nene or Hawaiian Goose (FWS 2004)
- W: Recovery Plan for the Hawaiian Hoary Bat (FWS 1998d)
- \*: Addressed only as candidate species.

Major threats to the various Kauai species addressed in this draft recovery plan include habitat degradation, predation and herbivory by nonnative mammals and invertebrates, disease spread by nonnative species, and competition with invasive nonnative plant species.

#### **Recovery Plan Goals**

The objective of a recovery plan is to provide a framework for the recovery of a listed species so that protection under the Act is no longer necessary. A recovery plan includes scientific information about the species and provides criteria and actions necessary for us to be able to reclassify the species or remove it from the Federal List of Endangered and Threatened Wildlife and Plants. Recovery plans help guide our recovery

efforts by describing actions we consider necessary for the species' conservation, and by estimating time and costs for implementing needed recovery measures.

The draft recovery plan recommends a combination of islandwide recovery actions (e.g., biosecurity), management of ecosystem-level threats within specific geographic management units, and species-specific recovery actions such as propagation and reintroduction.

### **Request for Public Comments**

Section 4(f) of the Act requires us to provide public notice and an opportunity for public review and comment during recovery plan development. It is also our policy to request peer review of recovery plans (July 1, 1994; 59 FR 34270). In an appendix to the approved recovery plan, we will summarize and respond to the issues raised by the public and peer reviewers. Substantive comments may or may not result in changes to the recovery plan; comments regarding recovery plan implementation will be forwarded as appropriate to Federal or other entities so that they can be taken into account during the course of implementing recovery actions.

We request written comments on the draft recovery plan. Before we approve the plan, we will consider all comments we receive by the date specified in **DATES**.

Methods of submitting comments are described in **ADDRESSES**.

### **Public Availability of Comments**

Before including your address, phone number, e-mail address, or other personal

identifying information in your comment, you should be aware that your entire

comment—including your personal identifying information—may be made publicly

available at any time. While you can ask us in your comment to withhold your personal

identifying information from public review, we cannot guarantee that we will be able to

do so.

**Authority** 

The authority for this action is section 4(f) of the Endangered Species Act of

1973, as amended (16 U.S.C. 1531 et seq.).

Mary Abrams,

Acting Regional Director, U.S. Fish and Wildlife Service.

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